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TITLE : ENCAPSULATED SILICA FILLER AND POLYISOPRENE RUBBER COMPOSITION  
CONTAINING THE SAME

ABSTRACT : PURPOSE: To provide the title filler which gives a rubber compsn. having excellent heat resistance, by polymerizing a radical-polymerizable monomer in the presence of a silica filler particle to coat the surface of the particle with the radical-polymerized polymer to thereby encapsulate the filler.

CONSTITUTION: A radical-polymerizable monomer (A) having a glass transition point of room temp. or higher, pref. 100°C or higher (e.g., methyl methacrylate) is polymerized in the presence of a filler (B) in a weight ratio of B to A of 1:3 or lower composed of silica particles having hydroxyl groups inside the particles and on the surfaces of the particles, such as hydrated silicic acid, synthetic silicic acid, etc., in a solvent (e.g., cyclohexane) and optionally, in the presence of a dispersant, a radical polymn. initiator, etc. to coat the surfaces of the particles with the polymer of the component A to thereby encapsulate the particles, thus obtaining the title filler. 100pts.wt. polyisoprene rubber is blended with 5~100pts.wt. said filler and optionally, additives such as a bulking filler, a reinforcing material, a softener, a colorant, etc., to obtain the title compsn.

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